



SEQUENCE LISTING

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Buchner, Robert R.

<120> Gene Expression Modulated In Gastrointestinal Inflammation

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<140> US 10/009,062
<141> 2000-06-09

<150> 60/138,487
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<170> PatentIn version 3.1

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<221> misc_feature
<223> IMX2_7

<400> 28
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aaaagcaaaa gagggggaaa aacatcaaaa gaacatgaaa aacagaaaac ccaaaaa 117

<210> 29
<211> 234
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_8

<400> 29
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taggaatgtc ttacacgcgg ggcaagacag ttactgatac gggcagacac agaacaagt 120
aacacaacga gcgactgccca caaaaaaaaaa agtgcactcg ggatgcacgt ggcatgaaca 180
cttggacacc gcagacagga gtgaagtact cgggactctc cacccccca aaaa 234

<210> 30
<211> 421
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_11

<220>
<221> misc_feature
<222> (34)..(34)
<223> N stands for A, C, G or T

<220>
<221> misc_feature
<222> (48)..(48)
<223> N stands for A, C, G or T

<400> 30
cggagtcgct atgtgtccaa gccgagctaa ccancataga gctgtgnat gattttgatg 60
agtaccccat gccatccagc aggtcatcaa gtcaggctca gatgagggtgc aggcagggca 120

gcaacgcaga ttcatcagcc acatcaagtgc cagaaacgcc ctgaagctgc agaaaggaa 180
gaagtacctc atgtggggcc ttcctctga cctctgggg gaaaagccca acaccagcta 240
catcatggg aaggacacgt gggtgagca ctggcctgag gcggaagaat gccaggatca 300
gaagtaccag aaacagtgcg aagaacttgg ggcattcaca gaatctatgg tggtttatgg 360
ttgtcccaac tgactacagc ccagccctct aataaagctt cagttgtatt tcacacaaaa 420
a 421

<210> 31
<211> 191
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_12

<400> 31
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ttcttccct gttgttccca gtcatgctgc cccccgagaa gaggagcaac tactgggtg 120
agatattttc taaaatctgg atccctaaac atcccaatgt gctgaataaa tacttgtgaa 180
atgcagaaaa a 191

<210> 32
<211> 173
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_13

<400> 32
cgatatacgc agcagctggg ccagctgacc ctggaaaatc tccagatgct acccgagagc 60
gaggatgagg agagctatga cacggagtca gaattcacag aggatgagct gccctatgat 120
gactgtgtgt ttggaggcca gcgtctgaca ttataagtgg aaagtggcaa aaa 173

<210> 33
<211> 311
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_15

<400> 33
cgggcccgtg atgctaacgt ggttcggtac cgtgaccctt aggtggacac caccctcaag 60
agcctgagtc agcagattga gaacatccgc agccccgaag gcagccgcaa gaaccctgcc 120
cgcacatgcc gcgacacctaa gatgtgccac tctgactgga agagcggaga gtactggatc 180
gaccctaacc aaggctgcaa cctggacgccc atcaaggct actgcaacat ggagacaggt 240
cagacctgtg tggccctac tcagccgtct gtgcctcaga agaactggta catcagcccg 300
aaccccaaaa a 311

<210> 34
<211> 138
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_16

<400> 34
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ctgagttcga ggccagtctg gtctataaag ttagttccag gtcagccagg gctatacaga 120
gaaattctgt cccaaaaa 138

<210> 35
<211> 99
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_20

<400> 35
cgggggtgcc aggtgtgagg ctttaggact ctggctctct gagctcagct cagggttagg 60
gcctcactgg attagaggct ctgctctaca ggataaaaa 99

<210> 36

<211> 109
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_23

<400> 36
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ccccacaccaa gaagaatgtg agaggaagta aggtcacttt atgcaaaaa 109

<210> 37
<211> 313
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_24

<400> 37
cggtctccat ggcttgccac tagtgtgttc gcatgttgg gataccttct tcccttgaac 60
caaaggaga gatgtggaaa tctgctcctc tgtttcctt tttcagaaaa gcacagaaca 120
aatctacttc agtaaatctc tcattctgccc agccaagtga gggtctgagc tcagccaacc 180
cctactgtct ctgcagacct cctactctac ttgaaggta gagctgttcc ttcttggac 240
tgtccactcc acctgccagt caggaccga tccatagcaa atggaagata cagctcttt 300
gcttacccaa aaa 313

<210> 38
<211> 325
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_25

<400> 38
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ccatctctga aatcgactgg ctgaacctga atgtgtacac ctgccgttg gatcacaggg 120
gtctcacctt cttgaagaac gtgtcctcca catgtgctgc cagtcctcc acagacatcc 180.

taaccttcac catccccccc tccttgccg acatttcct cagcaagtcc gctaacctga 240
cctgtctggt ctcaaacctg gcaacctatg aaaccctgga tatctcctgg gcttctaaa 300
gtggtaacc actggaaacc aaaaa 325

<210> 39
<211> 294
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_26

<400> 39
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cttcaagctc ctgagccact gcctgctggt gaccttggct agccaccacc ctgccgattt 120
caccccccgcg gtgcattgcct ctctggataa attccttgcc tctgtgagca ccgtgctgac 180
ctccaagtagtac cgtaagctg cttctgcgg ggcttgcctt ctggccatgc cttcttctc 240
tccccctgcac ctgtacctct tggtcttga ataaaggcctg agtaggaata aaaa 294

<210> 40
<211> 288
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_35

<400> 40
cggtactggg gaggcacagg caggcgatc cctgtgagtt cagggccagc ctgggctaca 60
gagtgagttg caggacagcc agggctacac aaagaagccc tgtcttgaga gaccaaaacc 120
ccaatctaac caaacaaaaac caaaaacaaa ccaaaaaaca aaacccaaac aaaacaggtt 180
tttgggaatg ggtttagtt cagaacactt gtctaataatg ggcaatgctc tgggttccat 240
ctcagcatta cagaaattaa taaaaacta ttttggcat aataaaaa 288

<210> 41
<211> 172
<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_39

<400> 41

cggataacag tatgtgtatg tgctgcattgc caatgagcca agtcctggag agggagacag 60

caatttgttg accaggattt accactccca tggatgct ccaaaagata ttgcattcagg 120

actcatagga cctctaatac tctgtaaaaa aggttctcta tataaggaaa aa 172

<210> 42

<211> 39

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_40

<400> 42

cggcattgttta gaacagtgttta tatcaatgag ttacaaaaaa 39

<210> 43

<211> 150

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_42

<400> 43

cggccaaact ctcaattacc atagatggag aaaccaaagt attccacgac aaaaccaaat 60

tcacacatta tatttccaaat aatccagccc ttcaaaggat aataacagga aaaaaaaacaa 120

tacaaggaca gaaatcatgc cctagaaaaaa 150

<210> 44

<211> 29

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_51

<400> 44
cggttaggta gagtgtcgcc aaggaaaaaa 29

<210> 45
<211> 291
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_52

<400> 45
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cctcaagctc ctgagccact gcctgctggc gaccttggct agccaccacc ctgccattt 120
caccccccgcg gtgcattgcct ctctggataa attccttgcc tctgtgagca ccgtgctgac 180
ctccaagttac cgtaagctg cttctgcgg ggcttcgcctt ctggccatgc cttcttttc 240
tcccttgcac ctgtacacctt tggtctttga ataaaggcctg agtaggaaaa a 291

<210> 46
<211> 283
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_53

<400> 46
cggttcccat atctttgagg gccctgggac cgagggcccg atgaccgcgtt ttttggcaca 60
tcagttgatt gactatcagg tgggtgaagg actctgcctt ttatatccct cacagagcga 120
caactggtcag ctctatgata acccttgcca cacttagagc aaagagttagt agtccctccc 180
tgtttatctg gagctctgca atctttctta aaatgcccag gctttccgca attaaaacat 240
gtcctctgat catttctgct catggagcgg ttctgagatt gga 283

<210> 47
<211> 421
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_58

<400> 47
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gaaaaccact ggggaggaaa ggcttgaaga agggatacac tgtgggggt gatgcaatga 120
tcactctagg acaagagcag gattcctatg gggaaattt tgatgcaaag caatccttg 180
ttggggagat atggatgtt tccttgggg accatgttgtt ccccttagaa aaggtatcag 240
acagctgtaa caatggcaac cttataaact ggcaagctct taattatgaa gacaatggct 300
atgtggtgac taagccaaa ctgtggcctt aagctaattt ctctatgaaa tataagtctg 360
cttttggttc tggtaaaatg ataatgtgca ttgcattaaa aaagcaaaga aatgtgaaaa 420
a 421

<210> 48
<211> 271
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_59

<400> 48
cggcgccat atccagtctg gctgcaacgg tgactctggg ggaccctca actgtccgc 60
tgacaatggc acctggcagg tccacggtgt gaccagctt gtgtcctcct tgggctgcaa 120
caccctgagg aagcccacag tgttcacccg tgtctcagcc ttcattgact ggattgagga 180
gaccattgcc aacaactaga tccaagggttc ggctggcaga gaggaccccc aggtcctcta 240
aagaataaaag acctttctga aagcctaaaa a 271

<210> 49
<211> 418
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_60

<400> 49
cggtctgtat ctgtgtgaac tgggagtcgt gctctggat tgcaagaatt ctggctaat 60
ggaaaaccac tggggaggaa aggcttgaag aaggataca ctgtgggggg tgatgcaatg 120
atcaactctag gacaagagca ggattcctat gggggaaatt ttgatgcaaa gcaatccttt 180
gttggggaga tatggatgt ttccttgtgg gaccatgtgg tccccctaga aaaggtatca 240
gacagctgta acaatggcaa ccttataaac tggcaagctc ttaattatga agacaatggc 300
tatgtggtga ctaagccaa actgtggcct taagctaatt gctctatgaa atataagtct 360
gctttggtc tgttaaaatg ataatggca ttgcattaaa aaagcaaaga aataaaaa 418

<210> 50
<211> 352
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_1

<400> 50
cgaaacccgg gaccgctggg ggctgcgggt ctgttcatca cggttattt cattctcact 60
agtgggaagt gttaggcagtt gtctcaattt tgcctgaatc gccacaggtg agtgcgggccc 120
agcacccctga tggcaccacc agctggagcc tccaaactac accaactcac cacccctgc 180
ctcctccctc taccccaaga gcctacagag tgcataacat gaaagaatcc tggaaaggaag 240
aggccactgg agggagtcag gcttaaggct aatggtcttc ccaccctggg gagagaggtc 300
tccctaggca ctgctgtggc tggcataatccatg gtctctcaaa aa 352

<210> 51
<211> 135
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_65

<400> 51
cgaaacccccc gaaacccaaac gagctaccta aaaacaattt tatgaatcaa ctcgtctatg 60
tggcaaaata gtgagaagat ttttaggtag aggtgaaaag cctaacgagc ttgggtatag 120

ctggttaccc aaaaaa

135

<210> 52
<211> 186
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_66

<400> 52
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cacagtgcgg gagctgagga cgccatgcgc ctgtactatg tttgcactgc cccacactgc 120
ggccaccgct ggactgagtg atcgttcctt cttccacctg taataaatgc cagtttctac 180
taaaaaa 186

<210> 53
<211> 216
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_68A

<400> 53
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tctccagtc aacccgcctg atgtacatct actattcca ggagagtctg ctcccagaca 120
ctctgcctt ccctccaaaa ccctctcaact cccagctgt gcaaactggt tacacagcag 180
aaacgcaaaa taaagaggtg gcttcgcgg caaaaaa 216

<210> 54
<211> 216
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_68B

<400> 54
cgcccccccg cagaggtccg aaagaagccg agtgagggtg aagaggaggc agcctcagct 60

ggaggacccc aggttaaccc aatgccagtgc acagatgagg tcgtgtgacc ttcagtggct 120
gtctacagct cctgcttgag tttctgtgga gttgtcccc cccccccagg gtggtgttgc 180
tcactgtaat aaacatgatt aatagctggc taaaaaa 216

<210> 55
<211> 100
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_69

<400> 55
cgcccggtgtg tgccgttagga gtgggaaact ttgcatttct ctctccttat ctttcttgta 60
agacatccat ttaataaaagt ctcatgctga gagccaaaaa 100

<210> 56
<211> 312
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_71

<400> 56
cgggcatcca tgggttccaa ctgccactgc cccagtcttg gccagagata cccctcctgc 60
ctgactggaa gctgcacatc tgcccactga gctttggtga aaggcccaga ggctttgggg 120
acctctgttc ctgggccacc ctgcccgtgg gcaccctcta cttggggca cgttctagca 180
ccccattcct gactcctgga agatgcactt gccccgacag ctgggcagca cggctgtcct 240
ctgcagagac tgcctggtcc tcattgtact ttggggctc aactgaataa agccttgtgg 300
gaagcacaaa aa 312

<210> 57
<211> 374
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature

<223> IMX2_72

<400> 57
cgggctcaac cgctgtgaagg tttcccaggc agctgcagac ttgaaacagt tctgtccgca 60
gaatgctcaa catgaccctc tgctgactgg agtgtcttca agtacgaatc ctttcagacc 120
ccagaaaagtc tgctcccttt ttagtcatc tatcttgagg tttctcaaacc cactttcat 180
gaaccaggta atattcaaga gaactaaatt tgaagtctgt aaaaaagctt ctctttaaca 240
cgtgccataa tacactatct tctgctcgac agtccttaac atctacatct ctgaatttca 300
tggatttctg tctcacaagg tttaactatt ttatatacac tggctgttagc atacaataaa 360
gcatcatcca aaaa 374

<210> 58

<211> 251

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_73

<400> 58
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ccgcaaaaggc atctttggag actggtccga ctccatctct gccctctact gcaagtgcta 120
ttgatgcctt gaggctctgt ctacccagcc tggccttggg aatgtgtta gctccaagag 180
ccaggaggca agatgaccccc acgacctgct ctcatagctt ccctgtataa cagcccttcc 240
aaaggtaaaa a 251

<210> 59

<211> 248

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_2

<400> 59
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gccaggaggaca tctgtgaggg gcaggtcaat agccttcctg ggagcatcaa caaggcagg 120

gagtatattg aagccagtta catgaacctg cagagaccat acacagtggc cattgctggg 180
tatgccctgg ccctgatgaa caaactggag gaaccttacc tcggcaagtt tctgaacaca 240
gccaaaaa 248

<210> 60
<211> 64
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_3

<400> 60
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aaaa 64

<210> 61
<211> 121
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_34

<400> 61
cgggggtgcc aggtgtgagg ccttaggact ctggctctct gagctcagct cagggtcagg 60
gcctcgctgg atgaggggct ctgctctaca gggtaaataa aagaaaagct ttttgacagc 120
c 121

<210> 62
<211> 219
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> IMX2_70

<400> 62
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tgcaactacc cccgcaagcc atccgtcttc accagggtct ccaactacat tgactggatc 120
aactcggtga tggcaaggaa ctaactgaag acattactgc cactgtcccc ctggaaatgc 180
catagaaaag aaatagtaat aaagtaatta aagaatcac 219

<210> 63
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<220>
<221> misc_feature
<222> (46)..(46)
<223> V stands for A, C or G

<220>
<221> misc_feature
<222> (47)..(48)
<223> N stands for A, C, G or T

<400> 63
gaattcaact ggaagcggcc gcaggaattt tttttttttt ttttvnn 48

<210> 64
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 64
aggtcgacgg tatcgg 16

<210> 65
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<220>
<221> misc_feature
<222> (16)..(16)
<223> N stands for A, C, G or T

<400> 65
ggtcgacggt atcggn

16

<210> 66
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 66
gagctccacc gcggt

15

<210> 67
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<220>
<221> misc_feature
<222> (13)..(16)
<223> N stands for A, C, G or T

<400> 67
cgacggatc ggnnnn

16

<210> 68
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 68
cgacggatc ggcgcg

16

<210> 69
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 69
gatcgaatcc ggatacagca gcagctgggc 30

<210> 70
<211> 30
<212> DNA
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<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 70
gatcgaatcc gggctctggg tctattgttc 30

<210> 71
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 71
gatcgaatcc gggggtgcca ggtgtgaggc 30

<210> 72
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 72
gatcgaatcc ggtcatggga actcagtatt 30

<210> 73
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 73
gatcgaatcc ggtgccctgt ctgctctgag 30

<210> 74
<211> 30

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 74
gatcgaatcc ggctccctgt atcccaggct 30

<210> 75
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 75
gatcgaatcc gggggtgccca ggtgtgaggc 30

<210> 76
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 76
gatcgaatcc ggataaacagt atgtgtatgt 30

<210> 77
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 77
gatcgaatcc ggccaaactc tcaattacca 30

<210> 78
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 78

gatcgaatcc ggcgcgcacg gggaccagac 30

<210> 79
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 79
gatcgaatcc ggtgtcctgt ctgctctgag 30

<210> 80
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 80
gatcgaatcc ggaaaccccg aaaccaaacg 30

<210> 81
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 81
gatcgaatcc ggacggagga ccacccgtgc 30

<210> 82
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 82
gatcgaatcc ggccgtgtgt gccgttaggag 30

<210> 83
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 83
gatcgaatcc gggcatctaa tggccagtgg 30

<210> 84
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic primer

<400> 84
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<210> 85
<211> 30
<212> DNA
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<400> 85
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<210> 87
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<223> Description of Artificial Sequence: synthetic primer

<400> 92

gatcgaatcc ggcgatgtac actcggttca

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<210> 93

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic primer

<400> 93

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic primer

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<213> Artificial Sequence

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<400> 104
ccaagtccca ggctgtctg tt 22

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<400> 115
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<400> 116
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<210> 117
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<220>
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<400> 117
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<400> 118
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<220>
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<210> 120
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<220>
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<400> 120
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tcagagatta gcatggtggg aca 23

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<400> 123
ctggtttgac agagacgcag tagtc 25

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<210> 128
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<400> 129

Gly Trp Gln Gly Ala Pro Asp Pro Arg Gly Leu Gly Gln Leu Ser Gln
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Pro Tyr Met Gly Gly Glu Met Pro Trp Thr Ile Leu Leu Phe Ala Ser
20 25 30

Val Pro Thr Trp Ile Leu Ala Leu Ser Leu Ser Leu Ala Gly Ala Val
35 40 45

Leu Phe Ser Gly Leu Val Ala Ile Thr Val Leu Val Arg Lys Ala Lys
50 55 60

Ala Lys Asn Leu Gln Lys Gln Arg Glu Arg Glu Ser Cys Trp Ala Gln
65 70 75 80

Ile Asn Phe Thr Asn Thr Asp Met Ser Phe Asp Asn Ser Leu Phe Ala
85 90 95

Ile Ser Thr Lys Met Thr Gln Glu Asp Ser Val Ala Thr Leu Asp Ser
100 105 110

Gly Pro Arg Lys Arg Pro Thr Ser Ala Ser Ser Ser Pro Glu Pro Pro
115 120 125

Glu Phe Ser Thr Phe Arg Ala Cys Gln
130 135